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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------|-------------|----------------------|------------------------|------------------|
| 09/963,569 | 09/27/2001 | Fumitaka Toyomura | 862.C2392 | 8914 |
| | 7590 | EXAMINER | | |
| 30 ROCKEFELLER PLAZA | | | HAN, YOUNGHUIE JESSICA | |
| NEW YORK, NY 10112 | | | ART UNIT | PAPER NUMBER |
| | | | 2838 | |
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| | | | 06/03/2008 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | |
|---|---|--|--|--|
| | 09/963,569 | TOYOMURA ET AL. | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Jessica Han | 2838 | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | |
| Status | | | | |
| 1) Responsive to communication(s) filed on 19 Fe | action is non-final. nce except for formal matters, pro | | | |
| Disposition of Claims | | | | |
| 4) ☐ Claim(s) 1-3,5,13,14 and 36 is/are pending in the day Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,5,13,14 and 36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers | vn from consideration. | | | |
| · · · <u> </u> | - | | | |
| 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 27 September 2001 is/a Applicant may not request that any objection to the confidence Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner | re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj | e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d). | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | nte | | |

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DETAILED ACTION

1. The indicated allowability of claims 1-3, 5, 13, 14, and 36 is withdrawn in view of the newly discovered reference(s) to Park et al (5,995,400), Fujii et al (5,616,968), and Kimura et al (6,448,489). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 13, and 36 rejected under 35 U.S.C. 102(b) as being anticipated by Park et al (5,995,400).

Park et al discloses a power converting apparatus which is connected to an electric power system, said apparatus comprising: a converting circuit (240), arranged to convert direct current power to alternating current power; a transforming circuit (230), arranged to transform voltage outputted from said converting circuit; a switch (relay not shown), arranged to make/break connection between said transforming circuit and the electric power system; and a controller (220, arranged to control operation of said converting circuit and transforming circuit, and connection of said switch based on a line voltage of the electric power system and/or a connection state between said apparatus and the electric power system (see figure 28, col. 7, line 34 thru col. 8, line 67).

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (5,995,400) in view of Fujii et al (5,616,968 cited in IDS filed on 6/30/06).

Park et al discloses the invention substantially as claimed except for the use of a booster circuit, arranged to boost voltage of the direct current power to be inputted to the converting circuit. Fujii, however, teaches that the use of a booster (13) with a converting circuit (14) is well know in the power supply art (see figure 1b). Thus, it would have been obvious to one having ordinary skill in the art to employ the booster in power supply system of Park et al, as taught by Fujii et al, in order to allowing an AC power capacity to be increased relatively simply to respond to an increased load demand.

7. Claims 5 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (5,995,400) in view of Kimura et al (6,448,489).

Park et al discloses the invention substantially as claimed except for the use of a booster circuit, arranged to boost voltage of the direct current power to be inputted to the converting circuit and a solar battery. Kimura et al, however, teaches that the use of a solar battery (1b) and a booster (2) with a converting circuit (60) is well know in the power supply art (see figure 1). Thus, it would have been obvious to one having ordinary skill in the art to employ the booster and a solar battery in power supply system of Park et al, as taught by Kimura et al, in order to provide different output voltages and to enable efficient use of the maximum output power of the solar cells.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jessica Han/ Primary Examiner, Art Unit 2838